

ABSTRACT

A battery comprises a substrate having a cathode with a lower surface contacting the substrate and an opposing upper surface. A cathode current collector comprises conducting lines that contact the upper surface of the cathode. An electrolyte at least partially extends through the cathode current collector and contacts the cathode. An anode contacts the electrolyte, and optionally, an anode current collector contacts the anode. Also, because the cathode is formed on the substrate before the cathode current collector, the cathode current collector advantageously does not have to be fabricated out of a metal that is capable of withstanding further processing of the cathode, such as annealing of the cathode.

1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 24000 26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000 54000 56000 58000 60000 62000 64000 66000 68000 70000 72000 74000 76000 78000 80000 82000 84000 86000 88000 90000 92000 94000 96000 98000 100000